



Sindh Technical Education & Vocational Training Authority  
(STEVTa)  
Government of Sindh



## ESTABLISHMENT OF GOVERNMENT POLYTECHNIC INSTITUTE AT AZAM BASTI, JAMSHED TOWN, KARACHI (REMAINING WORK)

### BILL OF QUANTITIES



**SHAHZAD  
ASSOCIATES**  
CONSULTING ARCHITECTS, ENGINEERS & PLANNERS

KARACHI OFFICE :- 2ND FLOOR, FARZANA BUILDING, SHAHEED-E-MILLAT ROAD,  
KARACHI, TEL: 4348891 - 4388857, FAX: (92 - 021) 4530754, E-MAIL: shahzadarch@yahoo.com  
ISLAMABAD OFFICE :- 66, STREET NO. 59, 1/8-3, ISLAMABAD, PH: 444741  
QUETTA OFFICE: 4-B, 1ST FLOOR, HASSAN APARTMENTS, PATEL BAGH, QUETTA, PH: 839033

**ESTABLISHMENT OF GPI AZAM BASTI, JAMSHED TOWN, KARACHI  
(REMAINING WORK)**

**Summary of Cost**

<b>S #</b>	<b>SUB HEAD</b>	<b>TOTAL AMOUNT</b>
1	Cost of Civil Work (Scheduled Items) (Page No. 02 - 02) " <b>(A)</b> "	Rs=
2	Cost of Plumbing Work (Scheduled Items) (Page No. 03 - 05)	Rs=
3	Cost of Plumbing Work (NSI) (Page No. 06 - 07)	Rs=
	<b>Sub Total of Plumbing Work</b>	<b>(B)</b>
4	Cost of Electrical Work (Scheduled Items) (Page No. 08 - 08)	Rs=
5	Cost of Electrical Work (NSI) (Page No. 09 - 12)	Rs=
	<b>Sub Total of Electrical Work</b>	<b>(C)</b>
<b>Total Cost of Work (A+B+C)=</b>		<b>Rs=</b>

**ESTABLISHMENT OF GPI AZAM BASTI, JAMSHED TOWN, KARACHI**  
**(REMAINING WORK)**

(Civil Works)

**BILL OF QUANTITIES**

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1	<b>FLUSH DOOR</b> First class deodar wood wrought, joinery in doors and windows etc. fixed in position including chowkats hold fasts hinges, iron tower bolts, chocks cleats handles and cords with hooks, etc. (Page No. 57, Item No. 7b)  Rate of Door: Rs. 1,227.36 - G.I. Frame Rs. 228.90 = Door & Windows (Rs. 998.46)	284.00	Per Sft	998.46	283,562.64
2	<b>ALUMINUM WINDOW</b> Supplying and fixing in position Aluminum channels framing for sliding window & Ventilators of Alcop made with 5 mm thick tinted glass glazing (Belgium) & Aluminum fly screen including handles stoppers and locking arrangement etc. complete. (b) Deluxe model (Bronze) (Page No. 108, Item No.84-b)	2,492.00	Per Sft	1,647.69	4,106,043.48
3	<b>ENAMEL PAINT ON WOOD WORKS</b> Preparing surface and painting of doors and windows any type (including edges) 3 Coats (Page No. 68, Item No. 5-C-i+ii)	6,674.71	%Sft	2,116.41	141,264.23
Sub Total				Rs=	4,530,870.35
____ % above / below				Rs=	
Cost of Civil Work (Scheduled Items)				Rs=	

**ESTABLISHMENT OF GPI AZAM BASTI, JAMSHED TOWN, KARACHI**  
**(REMAINING WORK)**

(Plumbing Works)

**BILL OF QUANTITIES**

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
4	<b>EUROPEAN WC</b> Providing and fixing European white glazed earthen ware wash down W.C. Pan complete with and including the cost of white / black plastic seat (best quality) and lid with c.p. brass hinges and buffers, 3 gallons white glazed earthen ware low level flushing cistern with siphon fitting 1½" dia white porcelain enamelled flush bend ¾" dia and making requisite number of holes in walls plinth and floor for pipe connections and making good in cement 1:2:4 (foreign quality) Vol-III, PartV-B, Page No. 2, Item No. 5.	2	Each	11,477.40	22,954.80
5	<b>LAVATORY BASIN</b> Providing and fixing 24" X 18" lavatory basin in white glazed earthen ware complete with & including the cost of W.I. or C.I. cantilever brackets 6" built into walls painted white in two coats after a primary coat of red lead paint a pare of ½" dia rubber plug and chrome plated brass chain 1¼" dia malleable iron or brass unions and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4 (foreign equivalent) Vol-III, PartV-B, Page No. 3, Item No. 10.	20	Each	4,928.00	98,560.00
6	Add extra for labour for providing & fixing of earthen ware pedestal white or coloured glazed (foreign or equivalent) Vol-III, PartV-B, Page No. 3, Item No. 11.	20	Each	153.07	3,061.40
7	Providing and fixing 6" x 2" or 6" x 3" C.I. floor trap of the approved self cleaning design with a C.I. screwed down grating with or without a vent arm complete with and including making requisite number of holes in walls, plinth and floor for pipe connection & making good in cement concrete 1:2:4. Vol-III, PartV-B, Page No. 6, Item No. 20.	22	Each	2,042.43	44,933.46

**ESTABLISHMENT OF GPI AZAM BASTI, JAMSHED TOWN, KARACHI**  
**(REMAINING WORK)**

(Plumbing Works)

**BILL OF QUANTITIES**

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
8	Providing and fixing in position nyloon connections complete with 1/2" dia brass stop cock with pair of brass nuts and lining joints to nyloon connection. Vol-III, PartV-B, Page No. 6, Item No. 23.	58	Each	447.15	25,934.70
9	Supplying and fixing long bib cock of crystal head with C.P. 1/2" dia. Vol-III, PartV-B, Page No. 19, Item No. 13.	21	Nos	1,109.46	23,298.66
10	Supplying and fixing cancealed stop cock of superior quality with crystal head 1/2" dia. Vol-III, PartV-B, Page No. 18, Item No. 11-a.	51	Nos	478.28	24,392.28
11	Supplying and fixing swan type piller cock of superior quality with crystal head. Vol-III, PartV-B, Page No. 19, Item No. 16-b.	20	Nos	877.80	17,556.00
12	Providing and fixing chrome plated brass towel rail complete with brackets fixing on wooden cleats with 1" long C.P. brass screws. ii, Towel rail 30" long, 3/4" dia round or square (S.I.No.1-ii-a/p-7) (Standard pattern)	20	Nos	1,082.95	21,659.00
13	Providing and fixing bavelled edge mirror of belgium glass complete with 1/8" thick hardboard and C.P. screws fixed to wooden plate. (S.I.No.3-b/a-7) (Standard pattern).	19	Nos	1,711.60	32,520.40
14	Construction of main hole or inspection chamber for the required dia for sewer and 3'-6" depth with walls of 13.13 cement mortar 1:3 1/2" thick cement plaster c/c main hole cover and c/c with framed 1/2" 1 1/2" c.c 1:2:4 and c/c duly painted etc. (S.HO=1 PNO=39 PHE)	20	Nos	14,748.00	294,960.00

**ESTABLISHMENT OF GPI AZAM BASTI, JAMSHED TOWN, KARACHI**  
**(REMAINING WORK)**

(Plumbing Works)

**BILL OF QUANTITIES**

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
15	S/F Fiber glass Tank of approved quality and design and wall thickness as specified i/c cost of nuts bolts and fixing plate farm of c.c. 1;3;6; and making connection for inlet and outlet and over flor inlet out let etc complete(c) 500 Gallons wall thickness 4.5 mm(S.,I.No:3/p-21).	3	No	37,505.42	112,516.26
16	Providing and fixing steel stainless local make complete with cast iron or wrought iron brackets 6 inches built in wall, 1-1/2" rubber plug chrome brass chain 1-1/2" C.P. brass waste with 1-1/2" plate P.V.C. waste pipe and making requisite number of holes in walls and plinth and floor for pipe connection and making good in cement concrete 1:2:4. (c) Steel sink stainless sized 33" x 18" local make (Standard Pattern). (S.I.No.19-c P-6).	1	No	5,712.30	5,712.30
Sub T otal				Rs=	728,059.26
___ % above / below				Rs=	
Cost of Plumbing Work (Scheduled Work)				Rs=	

**ESTABLISHMENT OF GPI AZAM BASTI, JAMSHED TOWN, KARACHI**  
**(REMAINING WORK)**

**BILL OF QUANTITIES**

(Plumbing Works) NSI

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
17	<b>uPVC PIPES</b> Providing and fixing <b>uPVC Pipes</b> and specials, etc.; including fixing, cutting and fitting, complete with and including the cost of cutting trench upto 2'-6" feet deep, refilling watering, ramming and disposal of surplus earth within one chain and painting 2 coats of bitumen paint to pipes and specials after cleaning and hessian cloth soaked in maxphalt composition wrapped tightly round the pipes and testing to a pressure head of 200 feet and cartage within 10 miles (16.09 km). (Pak Arab make or equivalent)				
a	1 inch Dia Pipe.	650.00	Rft		
b	Do. Do 1¼ inch (32 mm) Dia Pipe.	350.00	Rft		
c	Do. Do. 2 inch (50 mm) dia pipe.	100.00	Rft		
18	Providing and fixing uPVC Socket for the item No. 63 as mentioend above with complete fittings and fixtures of Pak Arab or equivalent)				
a	1 inch Dia Pipe.	34.00	Rft		
b	Do. Do 1¼ inch (32 mm) Dia Pipe.	19.00	Rft		
c	Do. Do. 2 inch (50 mm) dia pipe.	15.00	Rft		
19	Providing and fixing uPVC elobw for the item No. 63 as mentioned above with complete fittings and fixtures of Pak Arab or equivalent)				
a	1 inch Dia	20	Each		
b	1¼ inch Dia	20	Each		
c	2 inch dia pipe.	15	Each		

**ESTABLISHMENT OF GPI AZAM BASTI, JAMSHED TOWN, KARACHI**  
**(REMAINING WORK)**

**BILL OF QUANTITIES**

(Plumbing Works) NSI

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
20	Providing and fixing uPVC Tee for the item No. 63 as mentioned above with complete fittings and fixtures of Pak Arab or equivalent)				
a	1 inch Dia	20	Each		
b	1¼ inch Dia	25	Each		
c	2 inch dia pipe.	15	Each		
Cost of Plumbing Work (NSI)				Rs=	



**ESTABLISHMENT OF GPI AZAM BASTI, JAMSHED TOWN, KARACHI**  
**(REMAINING WORK)**

(Electrical Works)

**BILL OF QUANTITIES**

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
21	<b>CEILING ROSE</b> Providing and fixing bakelite ceiling rose with two terminals (Page No. 33, Item No. B-228)	1,111	Each	72.00	79,992.00
22	<b>CEILING FAN</b> Providing and fixing brass ceiling fan 56" i/c Fan Clamp good and best approved quality locally manufactured sweep ceiling fans complete with required down rod, blades, flexible cord PVC / PVC required to connect the fan etc. (Page No. 34, Item No. C-235)	321	Each	3,185.00	1,022,385.00
23	<b>WALL BRACKET FAN</b> Providing and installing 45 Cm (18") sweep wall bracket fan complete with blades regulator & pulling cord switch fitted on wall or column with GI clip including connection as required. Millat / Pak / Younas / Climax / Royal. (Page No. 34, Item No. C-236)	20	Each	1,884.00	37,680.00
24	<b>MAIN CABLE</b> Providing & laying (main or sub main) PVC insulated and PVC sheathed with 4 core armour conductor 600 / 1000 volts size 50 mm <sup>2</sup> . (Page No. 14, Item No. 116)	60.00	Per Meter	3,910.00	234,600.00
25	Providing & laying (main or sub main) PVC insulated with size 4/7/0.64 (16 mm <sup>2</sup> ) copper conductor in 1-1/2" dia PVC conduit recessed in wall and columns as required. (Page No. 6, Item No. 42)	100.00	Per Meter	1,213.00	121,300.00
Sub Total				Rs=	1,495,957.00
_____% above / below on Scheduled Items				Rs=	
<b>Cost of Scheduled Work</b>				<b>Rs=</b>	

**ESTABLISHMENT OF GPI AZAM BASTI, JAMSHED TOWN, KARACHI**  
**(REMAINING WORK)**

**BILL OF QUANTITIES**

Non-Schedule Items (Electrical Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
26	<b>SWITCHES</b> Providing & fixing 5/10 Amps SP Switch Polycarbonate flame retardant with fancy gang plate fixed on die fabricated powder coated metal board recessed in wall or column including connection as required. Complete in all respect as per instructions of Engineer-in-Charge. (E31-36/1/2A Clipsal make)				
a	Two Gang Switch	5	Each		
b	Three Gang Switch	1	Each		
c	Four Gang Switch	15	Each		
d	Five Gang Switch	35	Each		
e	Six Gang Switch	22	Each		
f	Eight Gang Switch	34	Each		
27	<b>3 PIN PLUG SOCKET</b> Providing & fixing 5/10 Amps SP Switch 3 Pin Plug Socket Polycarbonate flame retardant with fancy gang plate fixed on die fabricated powder coated metal board recessed in wall or column including connection as required. Complete in all respect as per instructions of Engineer-in-Charge. (E15 Clipsal make)	205	Each		
28	<b>TELEPHON SOCKET</b> Providing & fixing Polycarbonate flame retardant Telephone socket 4 contact single 2 line with fancy gang plate fixed on die fabricated powder coated metal board recessed in wall or column including connection as required. Complete in all respect as per instructions of Engineer-in-Charge. (E31RJ64SM Clipsal make)	12	Each		

**ESTABLISHMENT OF GPI AZAM BASTI, JAMSHED TOWN, KARACHI**  
**(REMAINING WORK)**

**BILL OF QUANTITIES**

Non-Schedule Items (Electrical Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
29	<b>3 PIN POWER PLUG</b> Providing & fixing 15 Amps SP Switch 3 Pin Power Plug Socket Polycarbonate flame retardant with fancy gang plate fixed on die fabricated powder coated metal board recessed in wall or column including connection as required. Complete in all respect as per instructions of Engineer-in-Charge. (Clipsal make)	8	Each		
30	<b>FITTING &amp; FIXTURE</b> Providing & fixing basic batten, surface type, fitting complete with TL'D 1x36W / colored / day light lamp, starter, electro magnetic ballast & capacitor as Philips Cat. (TMS-015/136)	359	Each		
31	Providing & fixing basic batten, surface type, fitting complete with TL'D 2x36W / colored / day light lamp, starter, electro magnetic ballast & capacitor as Philips Cat. (TMS-015/236)	182	Each		
32	<b>CEILING GLOBE</b> Providing and fixing 8" / 10 ceiling Globe Fitting complete glass /fiber shade with brass batten holder with 23 watts Energy saver lamp philips as required.	183	Each		
33	<b>FAN DIMMER</b> Providing & fixing Polycarbonate flame retardant, 400 watts fan dimmer with plate fixed on die fabricated powder coated metal board recessed in wall or column including connection as required. Complete in all respect as per instructions of Engineer-in-Charge. (E-32V400 F) Clipsal make)	321	Each		
34	<b>EXHAUST FAN</b> Making Hole of Exhaust Fan 12" Size with cutting plaster of the wall and finsh good the same as required.	19	Each		

**ESTABLISHMENT OF GPI AZAM BASTI, JAMSHED TOWN, KARACHI**  
**(REMAINING WORK)**

**BILL OF QUANTITIES**

Non-Schedule Items (Electrical Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
35	Providing & installing 40 Cm (12") sweep, metallic body Exhaust fan complete with blades, motor, etc fitted in existing hole including connection with 14.0076" flexible wire complete as required Millat / Pak / SM Din & Sons / Climax.	18	Each		
36	<b>uPVC Pipe</b> Providing and laying 50mm dia uPvc pipe installed already prepared under floor cable tranch ,including all installation accessories,complete in all respect as per instruction of the engineer Incharge.	415.00	P/Rft		
37	<b>TELEPHONE CABLE</b> Supply, installation, connecting, testing and commissioning of 2 Pair telephone cable in already installed under floor trunking and conduit. Complete in all respect as per instructions of Engineer-in-Charge.	150.00	P/Rft		
38	<b>MAIN PANEL &amp; DB,S</b> Providing and fixing Wall/Floor/flush type main Electric Panel , fabricated with heavy gauge sheet steel (not less then 16SWG) suitable for operation on 440 volts, 3 phase, 4 wire, 50 cycle, AC supply, dully painted with superior quality of enamelled paint after degreasing and phyosphating process. with equipped with following accessories.  <b>INCOMING</b> 1-60/75 Amps TPMCCB (Tarasaki) 1-set control wiring/Busbar 3x Indicator lamp 3x Phase Selector switch 1x Amper Meter 1x Volt meter 1-Set CTs Neutral connecting terminals. Earth connecting terminals. <b>OUT GOING</b> 50 Nos X 6/10 Amps SP MCB (Tarasaki) 5 Nos X 15 Amps SP MCB (Tarasaki) 1 No X 20 Amps DP MCB (Tarasaki)	2	P/Job		

**ESTABLISHMENT OF GPI AZAM BASTI, JAMSHED TOWN, KARACHI**  
**(REMAINING WORK)**

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Non-Schedule Items (Electrical Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
39	Same as item 94 above but Flush /Wall mounted DB incoming & out going as under . <b>INCOMING</b> 1x150 Amps TPMCCB (Tarasaki) 3x Indicator lamp 1x Neutral connecting terminals. 1x Earth connecting terminals. <b>OUT GOING</b> 2 X 75 Amps TP MCCB	4	P/Job		
40	<b>EARTHING SET</b> Providing and fixing earthing set with 600 mm X 600 mm X 6 mm copper plate buried in the ground at a depth of 3.6 m or less if water come out from the ground level (with salt and charcoal, or earth chemical powder) etc., making the pit 3.6 m feet deep by excavation of all type of soil (except soft or hard rock) including fixing of 8 SWG copper wire in 13 mm GI pipe. Complete in all respect as per instructions of Engineer-in-Charge.	1	P/Job		
41	Supply, Installation, testing & commissioning of Panels (breaker system). Flush / Wall mounted DB incoming & outgoing. Work including fixing termination at cable using all necessary cable lugs & nuts bolts etc.	5	P/Job		
42	<b>ELECTRIC WATER COOLER</b> Providing and fixing of electric water coolers totally rust proof, pressure type with stainless steel body as manufactured by MECO including 3 stage water filter (mabzi or equivalent) as approved by the Engineer-in-Charge.  Capacity 20 US gallons (MECO Model ME-30SS)	2	Each		
Cost of Electrical Works (Non-Scheduled Items)				Rs=	